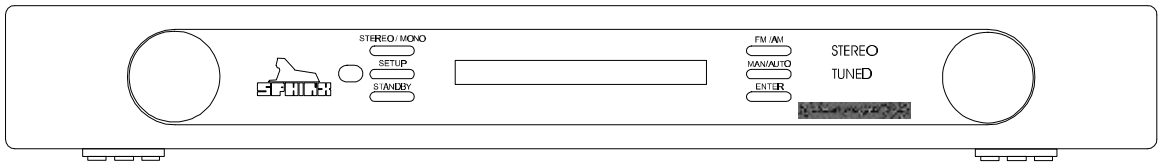
USER MANUAL

PROJECT FIFTY
TUNER



1. UNPACKING 3

2. SPHINX WARRANTY CARD 3

3. THE TUNER AT A GLANCE 4
Front panel 4
Rear panel 5

4. DISPLAY 6

5. INSTALLATION AND CONNECTIONS 7
Installation 7
Connecting the mains cable 7
Connecting the amplifier 7
Connecting the optical cables 7
Connecting the antenna 7

6. OPERATION 8
Power on/off 8
Antenna input sensitivity 8
Selecting AM or FM 8
Auto Tuning 8
Manual Tuning 8
Direct Access 8
Signal strength 9
Frequency indication 9
Tuned indication 9
Bandwidth selection 9
Stereo / Mono 9
Station memory 9
Auto Search / Auto Store 10
Changing memory data 10
Move station to other memory 10
Selecting a Preset 11
Remove station from memory 11
Clear all memories 11

RDS (RADIO DATA SYSTEM) 11
Radiotext 11
RDS Time 11
Station identification 11
Program Type recognition (PTY) 11
RDS Data Out 11

7. CHANGING PRESETS 12
Default settings 12
Direct Access settings 12
SETUP settings 13
1. FREQ settings 13
2. MEM settings 14
3. RDS settings 14

8. RDS IMPORTANT INFORMATION 16
RDS Radio Data System 16
Program Type (PTY) 16

SPHINX REMOTE CONTROL 17
Operation 18
Selecting without switching 18
Batteries 18
Encountering problems.. 18

CARE AND MAINTENANCE 19

TECHNICAL SPECIFICATIONS 19

Congratulations with your purchase of the Sphinx Project Fifty!

You are now a member of an ever increasing group of quality conscious audiophiles using Sphinx products.
We are very proud of the tradition connected to the SPHINX name especially concerning audio quality perfection.
This manual will help you to gain a maximum amount of pleasure and quality from your new Sphinx Project Fifty Tuner.

The Project Fifty's heart is based upon the tuner section of the legendary 'Five', the rest is of completely new design. Much attention has been paid to the prevention of noise signals from appearing in order to maximise the 'cleanliness' of the audio signal.
Features like the full-metal housing of the tuner section or the four completely separate power supplies (3 analogue, 1 digital) are only a small example.
The tuner has 99 memories (FM and AM), a tuning accuracy of 50 kHz and it is completely programmable (RDS, display, etc.).
It can be operated with just six buttons and two large rotary controllers: the latter offering that well-known analogue 'feel' although the tuner is digital throughout. A full-function Remote is supplied as standard.

To obtain the maximum quality from this tuner it is necessary to use it with top quality audio components. So preferably use it with other Sphinx components.

Please read this manual carefully before you install or use the Project Fifty.
It is important to familiarise yourself with the special functions, operation and possibilities of the Sphinx Project Fifty.

Your local dealer will be able to answer any questions concerning other Sphinx audio components.

1. UNPACKING

Before leaving the factory every Project Fifty is subjected to stringent and extensive technical and exterior quality inspections.
This ensures you will enjoy many years of high quality audio from a perfect looking product.

After unpacking your Project Fifty we therefore recommend you carefully check it for any transport damage.
In case of damage: please contact your Sphinx dealer immediately and retain all packing materials for possible proof of damage and possible claims.

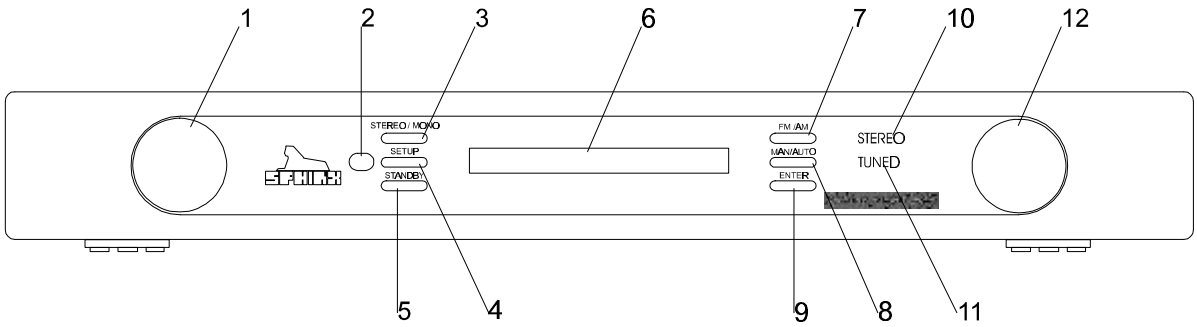
Even if the component is in perfect condition you still should keep the packing materials. If you need to transport your Project Fifty at a later time it will be best protected by the original packing materials.

2. SPHINX WARRANTY CARD

Please take this opportunity to fill out the enclosed warranty card now!
Follow the instructions on the card or consult your dealer.
Please send the card as soon as possible to the return address (within 14 days after purchase).

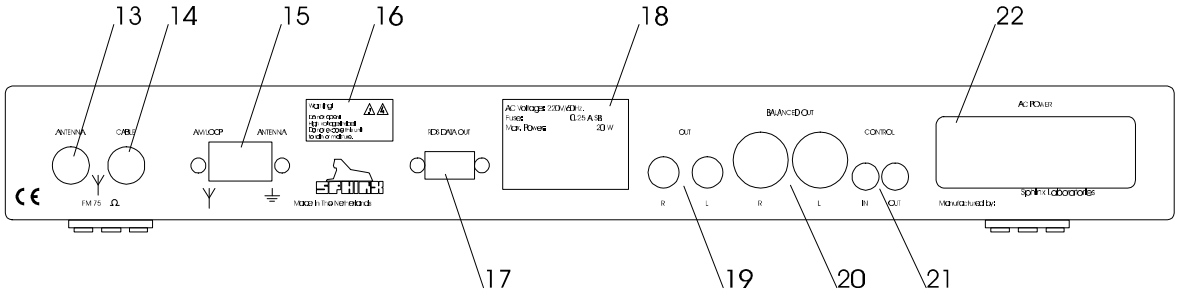
3. THE TUNER AT A GLANCE

Front panel



1. **SELECT**: To select the display mode: FREQ, RDS or MEM.
2. **Window for IR signals** from Remote Control.
3. **STEREO/MONO**: This button selects MONO reception (for instance when stereo reception is degraded by noise). Simultaneously it deselects the MUTING mode.
4. **SETUP:** Press this button for 2 seconds to activate the *Setup* mode.
   The display shows the first parameter to be adjusted.
   Each button press selects the next parameter.
   To leave the *Setup* mode at any time: press the STANDBY button (5) (see also page 6).
5. **STANDBY**: To switch the tuner on and off.
6. **Display**: Shows all important data (for more information see Chapter 4. DISPLAY).
7. **FM/AM**: To select the AM or FM frequency band.
8. **MAN/AUTO**: This button selects whether the VALUE controller operates in manual or automatic tuning mode.
9. **ENTER**: To activate memory programming.
10. **STEREO INDICATION**: LED will light red when a stereo signal is received.
11. **TUNED**: LED will light green as soon as the station has been tuned correctly.
12. **VALUE**: Use this controller to change a setting in the RDS, MEM or FREQ. display.
    For instance to start (automatic or manual) tuning in FREQ display: turn left for lower frequencies and right for the higher.

Rear panel



13. **Antenna**: 75 Ω antenna input to connect coax cable from your external antenna (ANTENNA) (coax DIN 45 325)
14. **Cable**: 75 Ω antenna input to connect coax cable from your cable system (CABLE) (coax DIN 45 325)
15. **AM/Loop antenna**: To connect an external AM antenna or an AM Loop Antenna.
16. **WARNING!**: Here you will find important safety symbols and instructions regarding the safe operation of this product.
17. **RDS DATA OUT**: To connect a 9-pin sub-D cable from a PC.
18. **Manufacturer's label**: This shows important data for the component such as serial number and mains power voltage.
19. **OUT R**: Unbalanced output, connect this to the Right tuner input of the amplifier with a cinch cable.
    OUT L: Unbalanced output, connect this to the Left tuner input of the amplifier with a cinch cable**.**
20. **BALANCED OUT R**: To connect the XLR signal cable from the right (balanced) CD input of the pre-amp.
    BALANCED OUT L: To connect the XLR signal cable from the left (balanced) CD input of the pre-amp.
21. **Control In**: To connect the optical cable from the switching source.
    Control Out: To connect the optical cable to the next component.
22. **AC POWER**: Connect the mains cable to a mains power outlet (100 - 240 VAC).
    Here you'll also find the **Power Switch** (**O /--**) and the fuse.

4. DISPLAY

The display of the Project Fifty can show several kinds of information, dependent upon the mode selected: FREQ, RDS or MEM.
Use the SELECT controller (1) or the RW button (Remote, 10) to select the mode.
Then use the VALUE controller or the FW button (Remote, 11) to:
- FREQ change the frequency (tune)
- MEM select a memory
- RDS select information to be displayed

In standby mode the display will show:

```
-
```

After pressing the STANDBY button (5) first you see…:

```
SPHINX PROJECT 50
```

…and then (for instance):

```
FREQ: [] FM  87.50MHz
```

This specific display means there are no stations selected, the tuner is at the beginning of the frequency band.

It is also possible that a station has been programmed and then you will see (for instance):

```
FREQ: [] FM  96.80MHz
```

This FM station transmits at 96.80 MHz and the '**[ ]**' indicator in front of 'FM' shows that the WIDE bandwidth is selected.

When the display is in RDS mode you might see (for instance)…:

```
RDS : POP M
```

…the type of music or…

```
RDS : RADIO3FM
```

…the station identification or…

```
RDS : 14:18
```

…the time or…

```
DE ZINDERENDE ZATERDAG
```

…the RDS 'moving billboard' that shows specific data from the station.

When the tuner is in MEM mode display you might see (for instance):

```
MEM : 3  RADIO 3FM
```

…meaning you have selected Preset 3 and the station is stored into memory as "Radio 3 FM".

More detailed information about the settings and changing the parameters via Setup mode can be found in Chapter 7.

5. INSTALLATION AND CONNECTIONS

Installation

The Project Fifty will not become very hot, so placement is not critical. Although you should *not* place it on top of or near other heat-radiating equipment (such as power amps) or in direct sunlight.
If you need to use the pre-amp in a closed cabinet or on a bookshelf you absolutely must provide unrestricted ventilation around the component.

To prevent any possible interference: keep power supply cables away from all audio cables.

If all these conditions are met the Project Fifty will perform to the extremely high standards it is designed for.

Connecting the mains cable

Before you connect the cable check whether the mains voltage indicated on the manufacturer's label (18) on the rear panel is the same as your local mains voltage.
If not: please contact your dealer and do not connect the component to the mains.

Connect the tuner to a mains power as indicated on the Manufacturer's Label (18).
If you would like to switch the component on and off centrally, you may connect it to a switched AC outlet of an amplifier.

Connecting the amplifier

Before you start connecting equipment it is always wise to check whether all mains power cables of all components are disconnected from the mains outlets! This will prevent any damage to the loudspeakers and amplifiers caused by incorrect wiring or settings.

Connect the OUTPUT connectors (19 or 20) to the TUNER input of the amplifier.
Make sure you connect L and R properly:
L = left channel (white)
R = right channel (red)

The XLR connectors are marked RIGHT and LEFT.
When making the connections please refer to the descriptions for parts 13. up to 22. on page 5.

Connecting the optical cables

When the optical output of a Sphinx Project Two or Eight is connected to the optical input (21) of the Project Fifty, you do not have to use the STANDBY switch (5). The tuner will automatically select Standby mode as soon as the other component is set to standby.

Ensure proper connection of the optical cables (from CONTROL OUT to CONTROL IN), otherwise the display will not show '-- ' although the standby mode is activated.

If the Project Fifty is placed in strong direct sunlight the standby mode may self-activate. In that case you should place the supplied dummy connector in the Control In (21) input (but only if this is not being used).

Connecting the antenna

Optimum reception quality - especially for FM stereo broadcasts - is only guaranteed with a good antenna system (broadband cable, external antenna or a central antenna system).
The Project Fifty has two 75 ohm coax-connections: ANTENNA and CABLE. Connect your (external) house antenna to ANTENNA (13) and the broadband cable system to CABLE (14). You may select the desired antenna input via the FREQ. Setup menu-item ANTENNA/CABLE.

The supplied *stray current protection filter* should be connected between cable and antenna input. This filter ensures 100% galvanic isolation between antenna cable and tuner and thus prevents any stray currents (noise!) on the shield of the cable from entering the input.

Use the AM/LOOP ANTENNA (15) connectors for an AM Loop Antenna (not supplied). For best results use a swivel-frame antenna and position the base of this antenna at the best possible position (e.g. near a window). If you attach it to or place it close to the metal rear panel of the housing the reception quality will decrease.

You may also use an external wire antenna: connect the antenna wire to the Ψ socket and the earth wire to the socket.

6. OPERATION

Power on/off

Connect the power cable of the Project Fifty to a wall outlet.

After you have finished connecting all components, you can power on the Project Fifty with the power switch on the rear panel (22.).
The display will show the following:

The Project Fifty is now in standby mode.

After this you only switch the Project Fifty on and off with the STANDBY button (5.). This way the electronic circuits will be kept at optimum working temperature so you can enjoy maximum audio quality immediately after switching-on. In addition to that, it significantly increases the life span of the component.

If you have connected the Project Fifty to an AC outlet of an amplifier you should leave the ON/OFF switch to ON. The power switch of the amplifier now serves as master switch.
It is then always possible to switch the Project Fifty to standby with the STANDBY button (5).

You switch the Project Fifty on with the STANDBY button. The display shows:

after which the station details appear.

Note: The LAST STATION MEMORY function assures this will be the same station that was selected before switching off.

After switching on the display is also activated. The default brightness is 100%, this can be adjusted – via Setup – to 75, 50 or 25%.

Antenna input sensitivity

The default input is CABLE. To receive broadcasts via the outside antenna, select the ANTENNA (13) input. The display will show ANTENNA.
The correct antenna input can be set via the Setup menu: the display will show the selected input.

A broadband cable network may provide high signal levels to the input, which may cause reception disturbances. For this reason, selecting the CABLE input also activates a -10 dB signal attenuator. This reduces the sensitivity and decreases reception distortion. This setting is automatically stored with the tuned station.

Selecting AM or FM

Select the desired band (AM or FM) with the FM/AM button (7).
If you recall a programmed station from memory the correct band for this station is automatically selected and displayed.

Auto Tuning

You select the AUTO TUNING feature by pressing the MAN/AUTO button (8) or the button (Remote 8): the display briefly shows "AUTO". If you now move the VALUE knob (to the left or right) the tuner will start searching and will stop at the first station with a strong enough signal.
Another move of the VALUE knob or the button restarts the search.
Note: Stations with a signal strength below the adjustable threshold (see *Search Level*, page 13) will be skipped. These can be tuned manually.
During auto tuning you can stop the search by slightly moving the VALUE knob.

Manual Tuning

Om You select the MAN TUNING feature by pressing the MAN/AUTO button (8) or the button (Remote 8): the display briefly shows "MAN".
Use the VALUE knob (12) or the TUNING buttons (Remote 3) to tune to a higher (turn right or press) or lower frequency (left or).
Note: The smallest 'step' is 50 kHz (FM) or 9 kHz (AM).
If you hold the knob or press the button longer, a 'fast search' function is activated in order to decrease the search time.
Note: During manual tuning the audio output is muted.

Direct Access

The Direct Access option enables you to directly enter the station's frequency or memory location via the Remote numeric keypad.
For *memory*: First select the MEM display using the FF- of RW buttons (10 or 11) of the Remote Control. Then use the numeric keypad to input the location. The station will be active immediately.
For *frequency*: First select the FREQ display using the FF- of RW buttons (10 or 11) of the Remote Control. Then use the numeric keypad to input the frequency. After the frequency has been entered completely, it appears for two seconds in the FREQ display with "DIRECT" in front of it (for instance):

Note: This function is 'intelligent'. You can only input valid values between 88 and 108 (for instance 91.10 or 91.25), others (like 91.18) are not accepted.

And when you input '1' the '0' is automatically added while all frequencies starting with '1' also have a '0'. For AM you may enter any value: the tuner then selects the closest frequency in the AM spectrum grid.

Signal strength

The signal level of a station (as received by the antenna input) is displayed by a vertical bar (max. 7 lines) in the FREQ display. The higher the bar, the stronger the received signal.
You may select a more detailed indication by pressing the II button (Remote 7). The display switches to a special signal level meter.

SignalLevel: | | | | | |

When the last bar is illuminated the signal strength is at maximum (100%).

Frequency indication

The frequency of the station is displayed in kHz (AM) or MHz (FM).
Directly after tuning a new station the FREQ display shows the RDS station identification which disappears after 3 sec.
This RDS information – plus all extra data – will be displayed continuously in the RDS display.

Tuned indication

As soon as a station has been tuned correctly the TUNED indication (11) will light: this will guarantee maximum reception quality. After this you may store the station into memory or you may just listen to it.

Bandwidth selection

Strong adjacent stations - transmitting on almost the same frequency as the station listened to - may degrade reception quality. If that is the case you can increase the selectivity of the tuner to improve reception by selecting a narrow bandwidth (NARROW).
The bandwidth can be selected in the FREQ display via the Setup menu (see Chapter 7).
A small bandwidth increases the selectivity. The FREQ display will then change from '**[ ]**' to '**][**'.

Stereo / Mono

Normally stereo FM stations are also received in stereo. As soon as a good quality stereo signal is received the STEREO indication (10) will light.

If the stereo reception is being disturbed (e.g. due to a weak signal) this indication will disappear. The MUTING however remains active so noise, etc. will be reduced.
In this case you may switch the tuner to MONO by pressing the STEREO/MONO button (3). The new setting is displayed for 3 sec.
The MUTING mode is also de-activated so you now are able to tune to very weak stations. Because in STEREO mode mono stations may be skipped while MUTING is active and the signal strength is below the muting threshold.

Station memory

There are 99 memory locations available. You may store an AM or FM station by using the following procedure.

- First tune (auto or manual) to the station. As soon as the tuning is correct (for FM the TUNED indication will light), you may store the station into memory.
- Press the ENTER button (9): the first free lowest-numbered location is shown (blinking).
- Using the VALUE knob you may select another location.
- By pressing the ENTER button again the station is stored on the location selected.
- Simultaneously the blinking cursor jumps to the first character of the station name (max. 8 chars). This can be the RDS Station ID or the text "NO NAME" for non-RDS stations.
  You may change this to your own liking using the 95 different characters available: dots, commas, lower case, numbers, etc.
  You select the *character* with the VALUE knob and the *cursor* position with the SELECT knob.
- After everything has been set to your liking, press ENTER. The display shows "PROGRAMMED" and the station is stored with the new name.

Note: The selected MONO or STEREO setting is stored automatically for each FM station.

Note: When all memory locations are in use, the first location made available will be MEM 1. Storing the new settings will overwrite the old ones.

Auto Search / Auto Store

The Project Fifty also has an automatic memory store function: AUTO STORE. After activating this the tuner will search the frequency band (starting with the lowest) and automatically store all received stations into memory, in the order they were found.
Note:

1. This function only works for FM.
2. The first time stations are stored starting at MEM1.
3. Each successive AUTO SEARCH will store stations starting at the first available location.

Select the FREQ display and press SETUP until you see:

AUTO STORE: NO

Change NO into YES with the VALUE knob and press SETUP again. Now you'll see:

ANT INPUT: CABLE

Cable is the default. if you want to use AutoStore with your external antenna, select ANTENNA with the VALUE knob. Press SETUP again. Now you'll see:

Again change NO into YES with the VALUE knob and press SETUP. Now you'll see:

AUTO SEARCH / STORE

And after a few seconds:

SEARCH : FM 87.50MHz

The frequency value will continually increase.
As soon as a station is found you'll see:

STORE : FM 87.50MHz

This station will be programmed into the first memory. This will continue until the end of the frequency band. Then you'll see:

XX STATIONS FOUND

Note: Each time you activate the AUTO STORE function, the stations will be stored starting from the first available location.

After the whole band has been searched, the tuner deselects SETUP mode and you will see the MEM display and the content of the first memory.

MEM : 1 Radio3FM

With the VALUE knob you can select every memory, check the data and (if necessary) change the data.

This function might result in some small problems which are not caused by the tuner:

1. Due to irregularities in the cable signal it is possible that a station has been stored twice (with slightly different frequencies). Or a station has not been stored although it is there.
   This is due to the cable signal not conforming to the standards.
   Using the station tables as supplied by the cable company you may find the wrong stations and delete them from memory and program the missing station(s) as needed.
2. There is no RDS data although you are sure the station transmits RDS.
   This also may be caused by the cable system setup that prevents the RDS data from some stations to be passed through.
3. The displays shows NO NAME or strange characters.
   This is due to the fact that the radio station does not conform to the RDS standard and uses the *StationName code* also for advertising or messages.
   You'll have to input the name manually.
4. The stations are stored in a different order than shown on station listing as supplied by the cable company.
   This is while the list's order differs from the actual order of the stations in the frequency band.
   The MOVE function enables you to change each station to a preferred memory location.

Changing memory data

If you want to change any memory data, first select the Mem display.
Press ENTER and you'll see

PROG:0x NO NAME

This is how you select the first free memory location. The 'x' will blink (it being the cursor location).

- Select the correct memory with the SELECT knob.
  The name (as entered by you or AutoStore) is displayed to the right.
- Press ENTER to move the cursor to the first character of the name.
- You may now change the name using the method as described by Station memory page 9.
- After everything has been set to your liking, press ENTER. The display shows "PROGRAMMED".
  The MEM display appears again now showing the changed data.

Move station to other memory

After you have stored all preferred stations, you are able to move any, all or fewer of the stations to another memory location with the MOVE option of the MEM Setup menu.
Example: You want to move your most favourite station from Preset 8 to Preset 1.

- Move the SELECT knob to switch to the MEM display.
- Select MEM 8.
- Press the SETUP button: the MEMORY MOVE option appears.
- Select YES and press SETUP: MOVE TO 8 appears.
- Press '1'
- Press SETUP again: MEMORY MOVED appears.
  The Setup mode is cancelled and the MEM display is shown again.

The content of memory 8 is now moved to memory 1, but simultaneously the content of 1 is moved to 8! This 'smart swap' ensures no data is lost when moving presets.

Selecting a Preset

First switch to the MEM display using the SELECT knob. Then you use the VALUE knob to select the correct preset. You may also use the Remote and directly input the preferred number. The station is active almost instantly.
To show RDS data from the station: switch to the RDS display with the SELECT knob and use the VALUE knob to select the type of information you would like to see (Station ID, Text, Time, PTY).
To show FREQ data: switch to the FREQ display with the SELECT. An extra option here is to show the detailed signal level meter by pressing the PAUSE button (Remote7).

Remove station from memory

- Switch to the MEM display.
- Select the memory to be deleted.
- Repeatedly press SETUP until you see "MEM DELETE: NO".
  Use the VALUE knob to select "MEM DELETE YES".
- Press SETUP: "MEMORY DELETED" appears, then the tuner exits the Setup mode and the MEM display is shown again.
  All station data is removed and the memory is free.

Clear all memories

- Select the MEM display.
- Select "DELETE ALL?".
  Confirm with SETUP button.
- "ARE YOU SURE?: NO".
  Select YES and confirm with SETUP.

Now all station memories are erased while keeping the tuner's system memories untouched.

Last Station Memory

LAST STATION MEMORY means the Project Fifty 'remembers' the last selected station. If you switch the Project Fifty 'ON' from standby, you will hear the last station you selected before switching the tuner off.

RDS (RADIO DATA SYSTEM)

Your Project Fifty is capable of receiving and evaluating RDS information (like Radiotext, Clock-Time, Program Service Name, Program Type) which is transmitted simultaneously with the standard broadcast signal.

Radiotext

RADIOTEXT is additional information about the station and the program. You select this information (in the RDS display) by moving the VALUE knob until the text appears as a ‘moving billboard’ in the display. It is transmitted character by character so it may take some time before the entire text has been received. The display has 20 chars available. The scroll speed may be set via de Setup menu (SCROLL SPEED).
In absence of RADIOTEXT "NO RDS TEXT AVAILABLE" will appear in the display.

RDS Time

RDS stations often transmit "RDS Time" which is updated every minute. Move (in the RDS display) the VALUE knob (12) until the time appears. this can take a while (max. 1 minute).
It is also possible to show the *time* instead of ' **–** ' when in standby. In the RDS Setup menu select “RDS TIME: ON".

Station identification

In the RDS display you may select the Station Identification with the VALUE knob. The text shown can be stored as station ID in memory. After selecting a new station, this identification is also shown for 3 sec in the FREQ display. When no ID is transmitted "NO NAME" will show.

Program Type recognition (PTY)

RDS allows you to show the type of program the station transmits: move the VALUE knob until this info appears in the display.

RDS Data Out

The Project Fifty has a unique feature: it possible to show software and hardware information on your PC! If you connect the PC to the RDS DATA OUT connector (17) the data can be downloaded using common Terminal software. You are then able to manipulate this data (plain ASCII): modify it or store it
If you select in RDS SETUP "RDS OUTPUT: ON" than you have access to all the RDS data as transmitted by the station (such as the music, song texts, etc.)!

In the near future it will even be possible to upload data to the tuner.

7. CHANGING PRESETS

During the last quality inspection all settings are being programmed into the Project Fifty's memory. These default settings are based on the most likely system configuration in use with most of the Project Fifty owners.
These default presets will remain in memory indefinitely, even after the mains power has been disconnected.
The SETUP button (4) activates the extensive Setup menu which allows you to make any changes necessary.

The Project Fifty is able to show a number of different parameters depending on the display selected: FREQ, RDS or MEM.
Each display's Setup menu has some or more specific items in addition to the items common to all.

Default settings

If you switch on the tuner for the very first time the following default settings are active:

Parameter	Value
Band (FM/AM)	FM
Stereo/Mono:	STEREO
Man/Auto:	AUTO
Ant. Input:	CABLE
Auto Search:	NO
Brightness:	100%
Control In:	ON
Display mode:	ON
MEM Delete:	NO
MEM Move:	NO
RDS Output:	OFF
RDS Time:	ON
Scroll Speed:	50%
Search Level:	100%
Wide/Narrow:	WIDE

Each of these can be changed and restored.
There are *direct access* settings (via the knobs and buttons on the front panel and Remote) and *indirect access* settings (via the Setup menu).

This chapter will show you how to change each of these parameters.

Direct Access settings

FM/AM: After pressing this button the display will show for 3 sec:

…after which it returns to the normal (FM or AM) station's data.

MAN/AUTO: After pressing this button the display will show for 3 sec:

Another press reverts the function to AUTO.

STEREO/MONO: After pressing this button the display will show for 3 sec:

Note: Although you may be receiving a stereo signal, the STEREO indication (10) will also extinguish.

Another press reverts the function to STEREO.

The SELECT knob (1) is to select one of the three display modes: FREQ, MEM or RDS.
The VALUE knob (12) is used to change the parameters of the selected display. Turning to the right starts searching higher values and to the left the lower.

- In FREQ it functions as a normal tuning control.
- In MEM it changes the memory location value.
- In RDS it selects the type of RDS info to be displayed: station ID, text (via the 'moving billboard'), time or program type.

SETUP settings

The Project Fifty has three display modes: FREQ, MEM and RDS. For each you can access the menu after pressing the SETUP button (4).
Each menu item value can be changed by the VALUE knob (12).

At any time you may leave SETUP mode by pressing STANDBY. The display shows "SAVING DATA" and any changes are stored into memory.

Note: A unique feature for the Project Fifty is that specific settings such as FM/AM, NARROW/WIDE, STEREO/MONO, ANTENNA/CABLE, NAME and MEMORY location are automatically linked to the tuned station and stored for that station!
So if you select station 1, the tuner automatically selects the ANTENNA input, but if you select station 2 the CABLE input with NARROW bandwidth will be active, etc.

The following paragraphs will explain the available menu items.

1. FREQ settings

In order to change the FREQ settings, you have to select the FREQ display with the SELECT knob.

After pressing the SETUP button the first parameter appears:

SEARCH LEVEL: 100%

SEARCH LEVEL: This is the signal threshold for the auto tuning feature. For the 100% setting only the most powerful stations will be detected and tuned. In order to find weaker stations you have to lower the value. The correct value is very location-dependent and thus can only be found after some experimenting.

Another press on SETUP shows:

BANDWIDTH: WIDE [ ]

BANDWIDTH: The default value is WIDE. By selecting NARROW ('**] [**') you increase the filter selectivity. Closely adjacent stations will then interact less with each other.

Another press on SETUP shows:

ANT INPUT: CABLE

ANT INPUT: Here you may select (for each station) which antenna input should the default: *Antenna* or *Cable*.
Note: CABLE automatically inserts a –10 dB signal attenuator.

Another press on SETUP shows:

AUTO SEARCH: NO

AUTO SEARCH: Here you may activate the Auto Search / Auto Store function. This allows you to automatically scan for all receivable stations in the FM band and store them into memory. This will be a one-time-only action after the first install.

To activate, change "NO" to "**YES**" by turning the VALUE knob. Pressing SETUP again shows:

ANT INPUT: CABLE

After selecting CABLE or ANTENNA the tuner starts the AUTO SEARCH mode.

The display briefly shows:

AUTO SEARCH/STORE

...after which the tuner starts scanning the band, starting at the lowest frequency.
All stations that can be received properly will be sequentially stored into memory, starting at MEM 1 or at the first available location.

After the search is complete the display shows:

x STATIONS FOUND

..and the tuner exits Setup mode, selects the MEM display and selects MEM 1.

If you have left AutoSearch to "NO" the Setup mode continues as normal.
Another press on SETUP shows:

BRIGHTNESS: 100%

BRIGHTNESS: To set the display's brightness in steps of 25%.

Another press on SETUP shows:

CONTROL-IN: ON

CONTROL-IN: Here you may select whether the tuner reacts (ON) to the (optical) standby signal of other Sphinx equipment or not (OFF).

Another press on SETUP shows

DISPLAY MODE: ON

DISPLAY MODE: Here you may select whether the display remains on (ON) or will extinguish a few seconds after you have changed a setting (SLEEP). In the latter case any time you press a button or move a knob the display will become active immediately.

Another press on SETUP shows "SAVING DATA" in the display: the values are stored into memory. After this the normal FREQ display returns.

2. MEM settings

In order to change the MEM settings you have to: select the MEM display with the SELECT knob.

After pressing the SETUP button the first parameter appears:

MEM MOVE: NO

MEM MOVE: You activate the Move Mode by selecting "YES" using the VALUE knob. Another press on SETUP shows:.

MOVE TO: 01

MOVE TO: You may move the currently selected station to another memory location.
Simply select the new value with the VALUE knob (12) and press SETUP. You'll see:

MEMORY MOVED

The station is stored in the new location. The tuner exits the Setup mode. selects the MEM display and the new station's location.

If you have kept "MEM MOVE: NO" the Setup Mode continues. Another press on SETUP shows:

MEM DELETE: NO

MEM DELETE: You activate the Delete Mode by selecting "YES" using the VALUE knob.

Another press on SETUP shows:

MEMORY DELETED

The current memory is erased and freed. The tuner exits the Setup mode. selects the MEM display and the deleted memory location.

If you kept "MEM DELETE: NO" the Setup Mode continues. Another press on SETUP shows:

CLEAR MEMORY

CLEAR MEMORY: With this option you may erase all station preset memories. Pressing SETUP shows:

ARE YOU SURE?

By pressing SETUP you will erase all memories (while leaving the system memories unchanged). After this the display will show:

MEMORY CLEARED

The tuner exits the Setup mode. selects the FREQ display and selects frequency 87.50 MHz.

If you kept "CLEAR MEMORY: NO" the Setup Mode continues. Another press on SETUP shows:

BRIGHTNESS: 100%

See FREQ settings.

Another press on SETUP shows:

CONTROL-IN: ON

See FREQ settings.

Another press on SETUP shows:

DISPLAY MODE: ON

See FREQ settings.

Another press on SETUP shows "SAVING DATA" in the display: the values are stored into memory. After this the normal MEM display returns.

After you have tuned to a (non-stored) station in the FREQ display and switch to the MEM display the display will show:

MEM: NOT SELECTED

This means this station has not (yet) been stored into memory.

3. RDS settings

In order to change the RDS settings you have to: select the RDS display with the SELECT knob.

After pressing the SETUP button the first parameter appears:

SCROLL SPEED: 50%

SCROLL SPEED: Here you may select the speed with which the RDS text scrolls over the display in steps of 25%.

Another press on SETUP shows:

RDS OUTPUT: OFF

RDS OUTPUT: Here you may select whether the RDS DATA should be routed to the RDS DATA OUT connector (ON) or not (OFF).
When ON: if you connect a PC to this connector, you are able to download RDS data - with simple Terminal or RDS software - and manipulate it on the PC (store, print lists, etc.).

Another press on SETUP shows:

RDS TIME: ON

RDS TIME: Here you may select whether – in standby mode – the tuner should show the RDS time in the display (ON). You must of course first select a station providing this RDS time. The data appears maximum 1 minute after the station has been tuned.

Another press on SETUP shows:

BRIGHTNESS: 100%

See FREQ settings.

Another press on SETUP shows:

CONTROL-IN: ON

See FREQ settings.

Another press on SETUP shows:

DISPLAY MODE: ON

See FREQ settings.

Another press on SETUP shows "SAVING DATA" in the display: the values are stored into memory. After this the normal RDS display returns.

8. RDS IMPORTANT INFORMATION

RDS Radio Data System

The Project Fifty is an RDS tuner. RDS (*Radio Data System*) is a new broadcasting technology offering the listener more comfort and a better reception quality. But RDS will in the near future also offer completely new types of information.
The RDS tuner identifies the selected station (broadcasting the RDS data) and shows the program name in the display (max. eight characters, e.g. RADIO 3, BBCWORLD).
This program name is extracted from the broadcast's PS-codes. More codes are available for future functions (alarm messages, song texts, etc.). After you select a station the tuner checks if it is a RDS station: if so the station name is briefly displayed.

Program Type (PTY)

With Program Type you can select FM stations according to the transmitted program. You currently have a choice from 16 different program types.

NEWS = news service
Programs carrying (brief) reports on current events and statements of public interest. Also: weather and traffic reports.

AFFAIRS = politics and current affairs
Programs that supplement or give more extensive information on the news, e.g. reports and commentary or news magazines. These programs also offer detailed accounts of related issues, e.g. documentaries and discussions. Also: broadcasts of political and similar events.

INFO = special informative programs
Programs that offer helpful information e.g. consumer magazines, health tips, special weather services. In addition there are also programs for individual groups like farmers, children, foreign employees, etc.

SPORT = sport
All types of sports programs.

EDUCATE = learning and continuation of education
Educational programs for those pursuing knowledge in different fields, such as school radio, educational broadcasts, language courses, etc.

DRAMA = radio drama, literature
All types of radio drama such as plays, thrillers, science fiction programs or readings from literature.

CULTURES = **CULTURES** = culture, church and society
Programs offering reports, commentaries or evaluation of topics from these areas such as theatre, films, books, literature radio series, reports on schools and educational systems, church radio, prayers and other church services.

SCIENCE = science
Programs dealing with research and discoveries from the world of science and technology.

VARIETY = entertainment
Programs mostly offering light entertainment such as talk shows, quiz shows, guessing games, cabaret shows, sketches, chat shows, etc., often featuring music.

POP M. = popular music
Programs with popular and modern hits, national and international.

ROCK M. = rock music
Programs with international music for the younger generation, often with heavy emphasis on rhythm.

EASY M. = light music
Programs with all types of light music such as folk, dance, musical, light opera.

LIGHT M. = light classical music
Programs with popular classical music, often abbreviated works or excerpts from works such as overtures, arias, etc.

CLASSICS = serious classical music
Programs with more serious works such as symphonies, chamber music, full-length operas, etc.

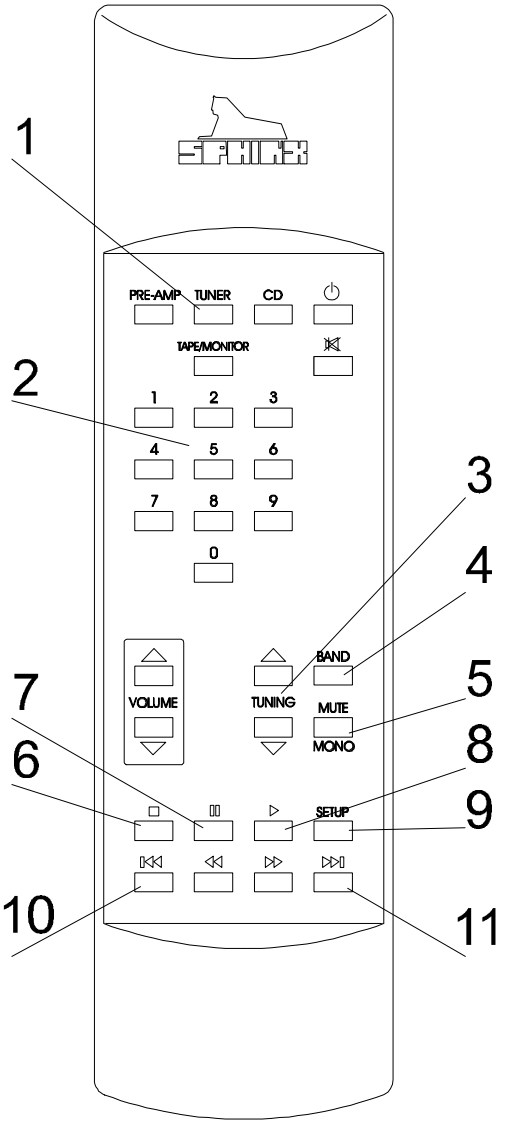
MUSIC = special music programs
All music programs that can not be assigned to one of the program types above e.g. folklore, jazz, experimental music, etc.

SPHINX REMOTE CONTROL

This single Sphinx Remote Control lets you control all functions: not only of the Project Fifty but of all other Sphinx equipment.
Only the following buttons and indications on the Remote apply to the Project Fifty (the others will not function):

Buttons

1. **TUNER**: To select the tuner. All buttons pressed hereafter will control only the tuner functions
2. **1 - 0**: With these numbered buttons you may select each of the 99 memories or input a station's frequency directly. To input a two digit number (e.g. 12): quickly hit the corresponding buttons ('1' and '2')**.**
3. **TUNING**: These knobs let you change values in each of the three display modes FREQ, MEM and RDS (works like the VALUE knob).
4. **BAND**: This button has the same function as the FM/AM button (7) on the front panel.
5. **MUTE/MONO**: This button has the same function as the STEREO/MONO button (3) on the front panel.
6. **STOP**: This button has the same function as the ENTER button (9) on the front panel.
7. **PAUSE**: To switch the detailed Signal Level Meter display on and off.
8. **PLAY**: This button has the same function as the MAN/AUTO button (8) on the front panel.
9. **SETUP**: This button has the same function as the SETUP button (4) on the front panel.
10. **RW**: This button has the same function as the SELECT knob (1) on the front panel.
11. **FF**: This button has the same function as the VALUE knob (12) on the front panel.



Operation

The Sphinx Remote is used for several different models and can therefore transmit different control codes, depending on which model has been selected with the select buttons (1.).

Important: Always press the TUNER button before you send a command (even if you only have one Sphinx component).

If not, it is possible that although the Remote will send a signal nothing happens because the transmitted signal is not 'recognised' by the component.

Indoors the Remote may be used up to a distance of 7 meter, provided there is no strong sunlight in the room and if you aim the Remote at the component.

Always aim the Remote straight at the front panel of the component, the maximum offset angle is 30°.

Selecting without switching

Suppose for instance that you would like to select the Tuner to Radio 4 without interrupting the CD playback.
In that case you momentarily depress (not longer than 0.5 sec) the 'TUNER' button and the '4' button.
The same procedure is used for the other system components.
Only when you depress the select button longer than 0.5 sec, the system will select a different signal source (in our example you will then hear the Tuner playback).

How to operate the Remote Control with the different Sphinx components will be explained in the corresponding User Manual of each component.

Batteries

The two batteries have a life span of approx. one year during normal use, but shorter when used more intensely.
Replacement batteries: 1.5 V, model *AAA*. You may also use rechargeable 1.5 V batteries.

Do not leave the battery compartment empty for more than 30 minutes or else all information in memory will be erased!

Note: *Position the new batteries exactly as shown in the illustration at the bottom of the battery compartment, otherwise the remote control will not work!*

Encountering problems...

Component reacts differently than expected or not at all	
Wrong component selected	Select the correct one
Component or Remote does not function	Check component with it's original remote
Batteries of remote empty	Use new batteries

CARE AND MAINTENANCE

Clean the exterior with a soft, lint-free, anti-static cloth. Do not use force while wiping the surface. To remove difficult stains use a few drops of detergent on a moist cloth, sweep carefully and wipe dry afterwards.

If some scratching occurs, please first consult your Sphinx dealer. He can give you advice about possible solutions.

Do not use polishing or cleaning agents: they may damage the sensitive finish.

Do not use aerosol cleaning agents.
Most contain solvents which might actively react and damage the acrylic finish.

TECHNICAL SPECIFICATIONS

FM section	87.5 – 108.0 MHz
Sensitivity, mono at (S+N)/N = 30 dB	11 dBf (1 µV)
mono at (S+N)/N = 50 dB	26 dBf (6 µV)
stereo at (S+N)/N = 50 dB	42 dBf (35 µV)
Dynamic selectivity (mono + stereo) (Wide / Narrow)	60 / 80 dB
Harmonic distortion, (mono/stereo)	<0.11 / 0.12%
(S+N)/N (IHF-A), (mono/stereo)	>58 / 59 dB
Channel separation	>49 dB
Tuning accuracy, automatic / manual	50 kHz / 50 kHz
Special functions	RDS ready
Antenna inputs, 75 ohm	Coax: for external antenna Coax: for CABLE (with 10 dB attenuator)
AM section, automatic tuning	522 – 1611 kHz
manual tuning	522 – 1611 kHz
Antenna input	2x spring-loaded clamp
Preset memories	99 (FM antenna + FM cable + AM)
Audio section	
outputs	cinch: unbalanced / XLR: balanced
level	1.1 V (0.8 dBV) / 2.2 V (6.8 dBV)
impedance	50 ohm / 100 ohm
Power consumption	20 W (11 W standby)
Dimensions (h x w x d)	68 x 482 x 328 mm
Weight	13.5 kg

** Measured at 1 kHz and 65 dBf (1 mV) antenna signal unless otherwise stated*

This unit conforms to the EMC interference regulations from the EU and to the CE standards.
This unit complies with safety regulation VDE 0860 and thus with international safety regulation IEC 65.

Technical specifications can be changed by SPHINX without prior notice if technical developments make this necessary.

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